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| **Class Name: Login** | |
| FunctionName: | FunctionDescription |
| +GetLoginInformation | Get the information from the form |
| +ValidateLoginInformation(account : string, password : string) | Validate the account and password. |
| +LoginErrorAlarm() | If there is something wrong, show it |

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| **Class Name: Access Control** | |
| FunctionName: | FunctionDescription |
| +GetUserLevel() : int | Get the Userlevel depends on the result of login |
| +SetAccessLevel() : void | set the function available active |

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| **Class Name:Register Account** | |
| FunctionName: | FunctionDescription |
| +ValidateSignUpInformation(account : string, password : string, email : string) : boolean | Validate the account, password and email format. Validate the account’s availability.  Validate the password safety |
| +GetUserAccount() : string | Get user account from UI |
| +SetUserAccount() : void | Save user account to database |
| +GetUserPassword() : string | Get user password from UI |
| +SetUserPassword() : void | Save user password to database |
| +GetUserEmail() : string | Get user email from UI |
| +SetUserEmail() : void | Save user email to database |

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| **Class Name:UpGrade Account** | |
| FunctionName: | FunctionDescription |
| +ValidateAccount() : boolean | Validate if account can be upgrade |
| +DoUpGrade() | Do upgrade |
| +CheckAndShowValidateResult() | Show the result |

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| **Class Name:** **ItemManagement** | |
| FunctionName: | FunctionDescription |
| -AddItem() | Add item |
| -DeleteItem() | Delete item |
| -ChangeItem() | Change item |
| -ItemClear() | Clear the information of current item |
| +InitialItem() | Clear all of what are unsaved in the plan |
| -ResetItemAccess() : void | change the access right to default |

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| **Class Name:** **ItemDetailManagement** | |
| FunctionName: | FunctionDescription |
| +ShowPlanID() : int | Show the current PlanID |
| +GetItemDetailCategory() | Get Item Detail Category |
| +SaveItemDetailCategory() | Save Item Detail Category |
| +GetItemDetailPrice() | Get Item Detail Price |
| +SaveItemDetailPrice() | Save Item Detail Price |
| +GetItemDetailDate() | GetItemDetailDate |
| +SaveItemDetailDate() | SaveItemDetailDate |

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| **Class Name:** **PlanManagement** | |
| FunctionName: | FunctionDescription |
| +AddPlan() | Add plan |
| +DeletePlan() | Delete plan |
| +GenerateReport() | Generate Report |
| +InitialPlan() | Clear all of what are unsaved plan |
| -ResetPlanAccess() : void | change the access right to default |
| +SearchPlan() | Search plan |

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| **Class Name:abstract class ShowChart** | |
| FunctionName: | FunctionDescription |
| +DrawChart() |  |
| -ResetChartAccess() : void |  |

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| **Class Name:** **ShowPieChari** | |
| FunctionName: | FunctionDescription |
| +DrawPieChart() | Draw pie chart |
| -ResetPieChartAccess() : void | change the access right to default |

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| **Class Name: abstract class** **EditSetting** | |
| FunctionName: | FunctionDescription |
| +ValidatePassword() |  |
| +GetNewPassword() |  |
| +SetNewPassword() |  |

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| **Class Name:** **EditPersonalProfile** | |
| FunctionName: | FunctionDescription |
| +GetNewUserName() | Get username |
| +SaveNewPhoneNumber() | Update phonenumber |
| +SaveNewUsername() | Update username |
| +GetNewPhoneNumber() | Get phonenumber |

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| **Class Name:** **ChangePassword** | |
| FunctionName: | FunctionDescription |
| +ValidatePassword(password : string) : boolean | Validate the old password |
| +GetNewPassword() : String | Get the new password from UI |
| +SetNewPassword() : void | Save the new password to database |

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| **Class Name:** **XmlDataAccess** | |
| FunctionName: | FunctionDescription |
| +IsEmpty() | Check if it is empty |
| +DeleteValue() | Delete value |
| +EditValue() | Edit value |
| +GetValue() | Get value |
| +SearchValue() | Search Value |
| +SetDataGrid() | Save data |

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| **Class Name: interface** **DataAccess realized in XmlDataAccess** | |
| FunctionName: | FunctionDescription |
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| **Class Name: XmlTree** | |
| FunctionName: | FunctionDescription |
| +AddChildNode() | Add node |
| +AddTreeNode() | Add tree node |
| +XmlTreeSave() | Save as tree |
| +XmlTreeLoad() | Read from the tree |
| +DeleteAccount() | Delete the information |

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| **Class Name: interface DatabaseTree realized in XmlTree** | |
| FunctionName: | FunctionDescription |